

February 12, 2016

Andrew Altevogt
Assistant Executive Officer
Central Valley Regional Water Quality Control Board
Central Valley Region
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

Attn: Charlene Herbst
Email: Charlene.herbst@waterboards.ca.gov
Phone: (916) 464-4724

Subject: Item #2 and Item #3 Response
13267 Order dated January 15, 2016, CMC Land Holdings LLC, 4207 West
Linwood Avenue, Turlock, Stanislaus County, California

Dear Mr. Altevogt:

On behalf of CMC Land Holdings LLC, The Source Group Inc. (SGI) has prepared this Item #2 and Item #3 Response Letter (Letter) for the dairy facility located at 4207 West Linwood Avenue, Turlock, Stanislaus County, California (Site). This letter has been prepared in response to the January 15, 2016 Regional Water Quality Control Board (RWQCB) correspondence entitled *California Water Code Section 13264 Order – Directives for Submitting Documentation Pertaining Wastewater Discharge on 20 November 2015 and Mitigation Measures at CMC Landholdings LLC, 4207 W Linwood Avenue, Turlock, Stanislaus County* (Order). Specifically this letter is intended to satisfy the following:

- 1) **Item #2 of the Order:** "Submit results of any additional sampling of the wells listed in your 8 December 2015 letter to Andrew Altevogt that has been conducted since 8 December 2015."
- 2) **Item #3 of the Order:** "Submit well driller's logs for the wells listed on your 8 December 2015 letter to Andrew Altevogt."

Item # 2 of the Order

On January 20, 2016, R&J Avila of Hilmar, California collected groundwater samples from domestic wells located at residences bordering West Linwood Avenue between South Washington Road and the area immediately south of the Site as required by the RWQCB Cleanup and Abatement Order (CAO), dated December 2, 2015. Domestic well samples were submitted to GeoAnalytical Laboratories, Inc. of Turlock, CA (Certified California Laboratory) for analysis of nitrate as nitrogen (N), total dissolved solids (TDS), and bacteria (E. coli and total coliform). Samples were collected as close to the wellhead as possible. A list of domestic wells that were sampled is provided in the Table below.

Well Location	Sample Date	Well Location	Sample Date
4530 W. Linwood	12/4/15; 1/20/16	1600 S. Washington	12/8/15; 1/20/16
4406 Linwood House	12/4/15; 1/20/16	4600 W. Linwood	12/8/15; 1/20/16
4318 W. Linwood	12/4/15; 1/20/16	4500 W. Linwood	12/8/15; 1/20/16
4200 W. Linwood	12/4/15; 1/20/16	4230 W. Linwood	12/8/15; 1/20/16
4030 Linwood House	12/4/15; 1/20/16	4207 Linwood (Dairy Well)	12/4/15; 1/20/16
1624 S. Washington	12/8/15; 1/20/16		

Approximate domestic well locations are provided on Figure 1. Laboratory analytical data for each well is summarized in Table 1. Certified laboratory analytical reports are included in Attachment B.

Item #3 of the Order

SGI submitted a request to the Department of Water Resources (DWR) for a copy of well logs within 0.5 mile radius of the Site. This request included the area encompassing the domestic wells listed in the above table. The DWR provided a copy of the requested well logs, but the address associated with each log was redacted and stamped confidential, Water Code Sec. 13752. Based on information provided on the well logs, we were able to eliminate well logs that are not associated with nearby domestic wells. A copy of the well logs provided by the DWR that are likely associated with the nearby domestic wells are provided in Attachment C. A table summarizing the well construction and soil types encountered during drilling activities is provided as Table 2.

During domestic well sampling activities, Rui Avila (R&J Avila Inc.) verbally requested a copy of well logs from the residents of the nearby domestic wells. The residents were unable to produce a copy of the well logs for any of the nearby domestic wells. SGI has contacted the DWR and formally requested a copy of well logs for each address individually in an effort to correlate well logs with specific addresses. Information obtained during the follow-up DWR well survey will be provided to the RWQCB under separate cover.

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Mr. Altevogt
February 12, 2016
Page 3 of 3

If you have any questions or require additional information, please call the undersigned at (530) 272-4200.

Sincerely,

The Source Group, Inc.

A handwritten signature in black ink, appearing to read "Greg McIver". The signature is fluid and cursive, with the first name "Greg" and last name "McIver" clearly distinguishable.

Greg McIver
Principal Scientist

Attachments:


- Figure 1 – Well Location Map
- Table 1 – Groundwater Analytical Results
- Table 2 – Domestic Well Log Summary
- Attachment A – Laboratory Analytical Reports
- Attachment B – Well Logs

The Source Group, Inc.

FIGURE



C:\Drawing Files\The Source Group\CMC Landholdings 06-CMC-001\Fig 1. Well Location Map - 02/12/2016




THE SOURCE GROUP, Inc.
944 McCOURTNEY ROAD, SUITE H
GRASS VALLEY, CALIFORNIA 95949

0 200 400
APPROXIMATE SCALE IN FEET

LEGEND

A	4207 W. Linwood Avenue, Turlock, California	G	4500 W. Linwood Avenue, Turlock, California
B	4030 W. Linwood Avenue, Turlock, California	H	4530 W. Linwood Avenue, Turlock, California
C	4200 W. Linwood Avenue, Turlock, California	I	4600 W. Linwood Avenue, Turlock, California
D	4230 W. Linwood Avenue, Turlock, California	J	1600 S. Washington Road, Turlock, California
E	4318 W. Linwood Avenue, Turlock, California	K	1624 S. Washington Road, Turlock, California
F	4406 and 4408 W. Linwood Avenue, Turlock, California		



WELL LOCATION MAP

**SOUTH WASHINGTON ROAD AND
WEST LINWOOD AVENUE
TURLOCK, CALIFORNIA**

PROJECT NO.:	DATE:	DRAWN BY:	APP. BY:	FIGURE
06-CMC-001	02/12/2016	CM	GM	1

TABLES

Table 1
Groundwater Analytical Results
 CMC Landholdings, LLC
 Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N (mg/L)	Total Dissolved Solids (mg/L)	Total Coliform (MPN)	E. Coli (MPN)
Dairy Well 4207 West Linwood Avenue	12/04/15	43.35	1.39	131	Absent	Absent
	01/20/16	43.35	1.4	192	Absent	Absent
4530 West Linwood Avenue	12/04/15	Not Accessible	14.5	707	Absent	Absent
	01/20/16	Not Accessible	18.0	726	Absent	Absent
4406 West Linwood Avenue - House	12/04/15	14.35	14.4	903	Absent	Absent
	01/20/16	14.35	17.3	936	Absent	Absent
4318 West Linwood Avenue	12/04/15	Not Accessible	22	1,300	Absent	Absent
	01/20/16	Not Accessible	21	1,210	Absent	Absent
4200 West Linwood Avenue	12/04/15	Not Accessible	19.3	2,370	Absent	Absent
	01/20/16	Not Accessible	22.3	841	Absent	Absent
4030 West Linwood Avenue - House	12/04/15	13.71	24.6	756	Present	Absent
	01/20/16	13.71	26.9	892	Absent	Absent
1624 South Washington Road	12/08/15	16.54	22.6	894	Absent	Absent
	01/20/16	16.54	24.9	845	Absent	Absent
1600 South Washington Road	12/08/15	Not Accessible	4.25	302	Absent	Absent
	01/20/16	Not Accessible	3.47	312	Absent	Absent
4600 West Linwood Avenue	12/08/15	Not Accessible	12.6	592	Absent	Absent
	01/20/16	Not Accessible	11.5	642	Absent	Absent
4500 West Linwood Avenue	12/08/15	Not Accessible	0.84	124	Present	Absent
	01/20/16	Not Accessible	2.02	290	Absent	Absent
4230 West Linwood Avenue	12/08/15	Not Accessible	14.2	825	Present	Absent
	01/20/16	Not Accessible	15.3	911	Absent	Absent

Notes:

Detections above secondary MCL for TDS (>500 mg/L)

Detections above MCL for Nitrate (>10 mg/L)

btoc = below top of casing

N = nitrogen

mg/L = milligrams per liter

MPN = most probable number

Table 2
Domestic Well Log Summary
CMC Landholdings, LLC
4207 W Linwood Ave, Turlock, CA

Address	Type	Sanitary Seal	Drilling Log	Screened Interval	Total Depth	Date Installed
4406 Linwood Ave (5S/10E-20)	Domestic	Unknown	0-4 top soil, 4-10 sand, 10-85 clay, 85-90 sand, 90-91 clay	80-90	91	9/16/70
207 W Linwood Ave (05S/10E-20)	Dairy Well	Yes, bentonite seal to 53' bgs	0-35 sand, 35-40 clay, 40-50 sand, 50-69 clay, 69-71 sand, 71-83 clay, 83-86 sand, 86-119 clay, 119-126 fine sand, 126-130 clay, 130-134 fine sand, 134-158 clay, 158-214 blue clay, 214-229 clay, 229-233 sand, 233-245 clay, 245-250 sand, 250-260 clay	225-255	260	4/9/04
4400 W Linwood Ave (5S/10E-20)	Domestic	Unknown	0-5 top soil, 5-7 hard pan, 7-12 clay, 12-28 sand, 28-52 clay, 52-58 sand, 58-60 clay	50-60	60	9/17/70
Unknown Locations	Type	Sanitary Seal	Drilling Log	Screened Interval	Total Depth	Date Installed
218539 (5S/10E-20)	Domestic	Yes, bentonite seal to 24' bgs	0-3 top soil, 3-9 sand, 9-13 clay, 13-21 sand, 21-26 clay, 26-51 sand with clay streaks, 51-67 clay, 67-77 sand, 77-100 pink clay and shale with sand streaks, 100-104 sand, 104-147 clay, 147-205 blue clay, 205-208 fine sand, 208-215 blue clay, 215-225 clay and brown shale, 225-234 brown coarse sand, 234-240 clay, 240-247 coarse brown sand, 247-250 clay, 250-259 coarse brown sand, 259-269 clay, 269-272 sand, 272-280 clay.	245-265	280	11/6/95
218542 (5/10-20)	Domestic	Yes, bentonite seal to 150' bgs	02 top soil, 2-10 sand, 10-12 clay, 12-17 sand, 17-25 clay, 25-40 sand, 40-45 clay, 45-60 sand, 60-90 clay, 90-95 sand, 95-98 clay, 98-102 sand, 102-130 clay, 130-140 fine sand, 140-198 blue clay and fine sand streaks, 198-210 clay and sand streaks, 210-220 sand, 220-222 clay	200-220	222	5/1/87
218544 (5S/10E-20)	Domestic	Yes, bentonite seal to 60' bgs	0-22 sand, 22-30 clay, 30-40 sand, 40-90 clay, 90-95 red sand, 95-120 clay, 120-130 fine sand, 130-154 clay, 154-165 blue sand, 165-210 blue clay, 210-232 gray clay, 232-245 sand, 245-250 clay	225-245	250	5/24/88

Table 2
Domestic Well Log Summary
CMC Landholdings, LLC
4207 W Linwood Ave, Turlock, CA

Unknown Locations	Type	Sanitary Seal	Drilling Log	Screened Interval	Total Depth	Date Installed
0901101717 (05S/10E-29)	Unknown	Unknown	Unknown	Unknown	Unknown	8/7/09
40281496 (5/10-20 A1)	Drainage Well	Unknown	Drilling Log is not legible	Unknown	250	3/1/35
40281695 (5S/10E-29 A1)	Drainage Well	Unknown	0-15 top soil and clay, 15-40 sand, 40-70 clay, 70 and below is sand	Unknown	70	8/25/22
40281696 (5S-10E-29R1)	Drainage Well	Unknown	0-6 soil, 6-12 hard pan, 12-20 muddy sand, 20-35 soft clay, 35-94 clay, 94-104 sand, 104-130 sand and clay, 130-160 clay, 160-170 sand, 170-215 blue clay, 215-225 clay, 225-227 sand, 227-245 clay, 245-255 sand	Unknown	255	March/April 1939

Notes:

bgs = below ground surface

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

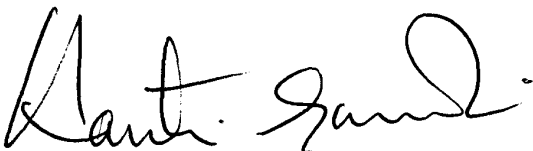
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

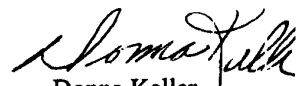
Sampler: Rui Avila

Sample ID: 1600 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2010-01	1/20/2016 11:05	0.40	300.0	Nitrate as N	3.47	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	312	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP Prepared: 01/19/16 Analyzed: 01/22/16									
Blank (C000194-BLK1)									
Nitrate as N	ND	0.40	mg/L						
LCS (C000194-BS1)									
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115		
LCS Dup (C000194-BSD1)									
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20
Matrix Spike (C000194-MS1) Source: C6A1905-02									
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115		
Matrix Spike Dup (C000194-MSD1) Source: C6A1905-02									
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20
Batch C000223 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000223-BLK1)									
Total Dissolved Solids (TDS)	ND	10.0	mg/L						
Duplicate (C000223-DUP1) Source: C6A1914-01									
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch C000212 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000212-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Duplicate (C000212-DUP1)

Source: C6A2016-05

E. Coli	Absent	NA	0.0	0
Total Coliform	Absent	"	0.0	0

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticalab.com

Report # C6A2010

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

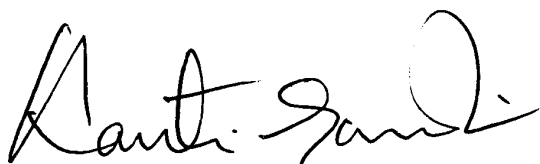
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

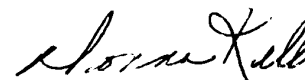
Sampler: Rui Avila

Sample ID: 1624 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2011-01	1/20/2016 11:30	0.40	300.0	Nitrate as N	24.9	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	845	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N ND 0.40 mg/L

LCS (C000194-BS1)

Nitrate as N 2.02 0.40 mg/L 2.258 89 85-115

LCS Dup (C000194-BSD1)

Nitrate as N 2.00 0.40 mg/L 2.258 88 85-115 0.9 20

Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115

Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115 0.03 20

Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS) ND 10.0 mg/L

Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS) 359 10.0 mg/L 353 2 10

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000213 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000213-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Duplicate (C000213-DUP1)

Source: C6A2016-04

E. Coli	Absent	NA	0.0	0
Total Coliform	Absent	"	0.0	0

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4030 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2008-01	1/20/2016 10:00	2.00	300.0	Nitrate as N	26.9	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	892	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N	ND	0.40	mg/L						
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LCS (C000194-BS1)

Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115		
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LCS Dup (C000194-BSD1)

Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20
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Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115		
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Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20
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Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10
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Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch C000212 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000212-BLK1)

E. Coli	Absent		NA						
Total Coliform	Absent		"						

Duplicate (C000212-DUP1)

Source: C6A2016-05

E. Coli	Absent		NA		0.0			0	
Total Coliform	Absent		"		0.0			0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2020

Project: Linwood Discharge

Date: 01/28/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

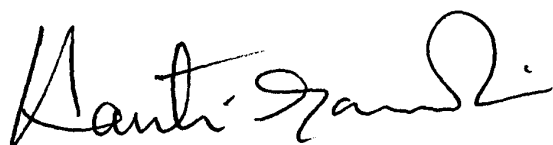
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2020-01	1/20/2016 15:55	0.40	300.0	Nitrate as N	22.3	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	841	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2020

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000208-BLK1)									
Nitrate as N	ND	0.40	mg/L						
LCS (C000208-BS1)									
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115		
LCS Dup (C000208-BSD1)									
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20
Matrix Spike (C000208-MS1) Source: C6A2019-01									
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115		QM-02
Matrix Spike Dup (C000208-MSD1) Source: C6A2019-01									
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20 QM-02
Batch C000223 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000223-BLK1)									
Total Dissolved Solids (TDS)	ND	10.0	mg/L						
Duplicate (C000223-DUP1) Source: C6A1914-01									
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10

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Report # C6A2020

Project: Linwood Discharge

Date: 01/28/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch C000215 - BIO

Prepared: 01/02/16 Analyzed: 01/21/16

Blank (C000215-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

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Report # C6A2020

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- A Absent
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- RL Reporting Limit
- NA Not Applicable

Certification # 2585

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email: info@geoanalyticallab.com

Report # C6A2009

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

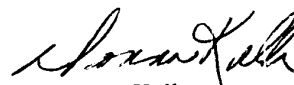
Sampler: Rui Avila

Sample ID: Dairy Well 4207 Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2009-01	1/20/2016 11:50	0.40	300.0	Nitrate as N	1.38	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	192	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6A2009

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP Prepared: 01/19/16 Analyzed: 01/22/16									
Blank (C000194-BLK1)									
Nitrate as N	ND	0.40	mg/L						
LCS (C000194-BS1)									
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115		
LCS Dup (C000194-BSD1)									
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20
Matrix Spike (C000194-MS1) Source: C6A1905-02									
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115		
Matrix Spike Dup (C000194-MSD1) Source: C6A1905-02									
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20
Batch C000223 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000223-BLK1)									
Total Dissolved Solids (TDS)	ND	10.0	mg/L						
Duplicate (C000223-DUP1) Source: C6A1914-01									
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10

GeoAnalytical Laboratories, Inc.

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Report # C6A2009

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch C000212 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000212-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Duplicate (C000212-DUP1)

Source: C6A2016-05

E. Coli	Absent	NA	0.0	0
Total Coliform	Absent	"	0.0	0

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Report # C6A2009

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

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Report # C6A2013

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4230 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2013-01	1/20/2016 12:25	0.40	300.0	Nitrate as N	15.3	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	911	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Report # C6A2013

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N	ND	0.40	mg/L						
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LCS (C000194-BS1)

Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115		
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LCS Dup (C000194-BSD1)

Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20
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Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115		
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Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20
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Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10
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Certification # 2585

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Report # C6A2013

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000213 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000213-BLK1)

E. Coli	Absent		NA							
Total Coliform	Absent		"							

Duplicate (C000213-DUP1)

Source: C6A2016-04

E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

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Report # C6A2013

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

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Report # C6A2019

Project: Linwood Discharge

Date: 01/28/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

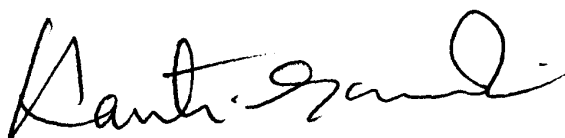
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2019-01	1/20/2016 16:10	2.00	300.0	Nitrate as N	21.4	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	1210	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Report # C6A2019
R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Project: Linwood Discharge

Date: 01/28/16
Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16										
Blank (C000208-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000208-BS1)										
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115			
LCS Dup (C000208-BSD1)										
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20	
Matrix Spike (C000208-MS1) Source: C6A2019-01										
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115			QM-02
Matrix Spike Dup (C000208-MSD1) Source: C6A2019-01										
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20	QM-02
Batch C000223 - NO PREP Prepared: 01/21/16 Analyzed: 01/22/16										
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1) Source: C6A1914-01										
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

Certification # 2585

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Report # C6A2019

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000215 - BIO

Prepared: 01/02/16 Analyzed: 01/21/16

Blank (C000215-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Report # C6A2019

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- A Absent
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- RL Reporting Limit
- NA Not Applicable

GeoAnalytical Laboratories, Inc.

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Report # C6A2021

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

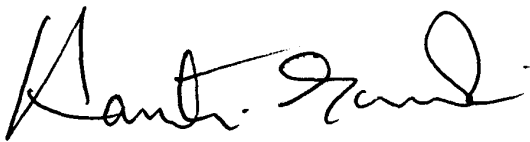
Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2021-01	1/20/2016 15:40	0.40	300.0	Nitrate as N	17.3	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	936	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Report # C6A2021

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP									
Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000208-BLK1)									
Nitrate as N	ND	0.40	mg/L						
LCS (C000208-BS1)									
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115		
LCS Dup (C000208-BSD1)									
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20
Matrix Spike (C000208-MS1)									
Source: C6A2019-01									
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115		QM-02
Matrix Spike Dup (C000208-MSD1)									
Source: C6A2019-01									
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20 QM-02
Batch C000223 - NO PREP									
Prepared: 01/21/16 Analyzed: 01/22/16									
Blank (C000223-BLK1)									
Total Dissolved Solids (TDS)	ND	10.0	mg/L						
Duplicate (C000223-DUP1)									
Source: C6A1914-01									
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Report # C6A2021

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000215 - BIO

Prepared: 01/02/16 Analyzed: 01/21/16

Blank (C000215-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2021

Project: Linwood Discharge

Date: 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

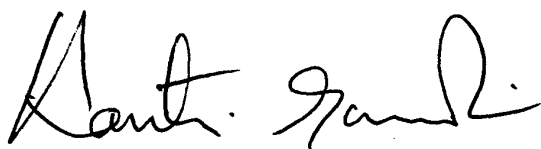
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4500 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2012-01	1/20/2016 12:15	0.40	300.0	Nitrate as N	2.02	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	290	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticalab.com

Report # C6A2012

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N ND 0.40 mg/L

LCS (C000194-BS1)

Nitrate as N 2.02 0.40 mg/L 2.258 89 85-115

LCS Dup (C000194-BSD1)

Nitrate as N 2.00 0.40 mg/L 2.258 88 85-115 0.9 20

Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115

Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115 0.03 20

Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS) ND 10.0 mg/L

Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS) 359 10.0 mg/L 353 2 10

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch C000213 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000213-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Duplicate (C000213-DUP1)

Source: C6A2016-04

E. Coli	Absent	NA	0.0	0
Total Coliform	Absent	"	0.0	0

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geanalyticallab.com

Report # C6A2014

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

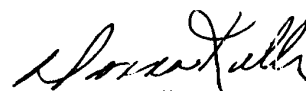
Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2014-01	1/20/2016 09:40	0.40	300.0	Nitrate as N	18.0	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	726	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geanalyticallab.com

Report # C6A2014

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N ND 0.40 mg/L

LCS (C000194-BS1)

Nitrate as N 2.02 0.40 mg/L 2.258 89 85-115

LCS Dup (C000194-BSD1)

Nitrate as N 2.00 0.40 mg/L 2.258 88 85-115 0.9 20

Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115

Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N 16.7 0.40 mg/L 2.258 14.6 93 85-115 0.03 20

Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS) ND 10.0 mg/L

Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS) 359 10.0 mg/L 353 2 10

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue
Hilmar, CA 95324

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000213 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000213-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

Duplicate (C000213-DUP1) Source: C6A2016-04

E. Coli	Absent	NA	0.0	0
Total Coliform	Absent	"	0.0	0

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014

Project: Linwood Discharge

Date: 01/25/16

R & J Avila

Date Rec'd: 01/20/16

8119 Ellington Avenue

Hilmar, CA 95324

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

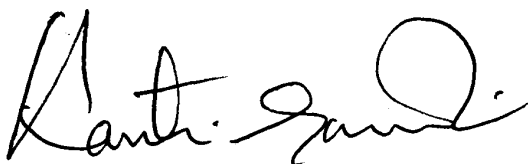
Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4600 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2015-01	1/20/2016 10:30	0.40	300.0	Nitrate as N	11.5	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	642	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch C000194 - NO PREP

Prepared: 01/19/16 Analyzed: 01/22/16

Blank (C000194-BLK1)

Nitrate as N	ND	0.40	mg/L						
--------------	----	------	------	--	--	--	--	--	--

LCS (C000194-BS1)

Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115		
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LCS Dup (C000194-BSD1)

Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20
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Matrix Spike (C000194-MS1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115		
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Matrix Spike Dup (C000194-MSD1)

Source: C6A1905-02

Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20
--------------	------	------	------	-------	------	----	--------	------	----

Batch C000223 - NO PREP

Prepared: 01/21/16 Analyzed: 01/22/16

Blank (C000223-BLK1)

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
------------------------------	----	------	------	--	--	--	--	--	--

Duplicate (C000223-DUP1)

Source: C6A1914-01

Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10
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Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	--------------	-------

Batch C000213 - BIO

Prepared: 01/20/16 Analyzed: 01/21/16

Blank (C000213-BLK1)

E. Coli	Absent	NA						
Total Coliform	Absent	"						

Duplicate (C000213-DUP1)

Source: C6A2016-04

E. Coli	Absent	NA			0.0		0	
Total Coliform	Absent	"			0.0		0	

Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015

Project: Linwood Discharge

Date: 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2015Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

EDF

EDT

FIELD LOGS

[illegible]

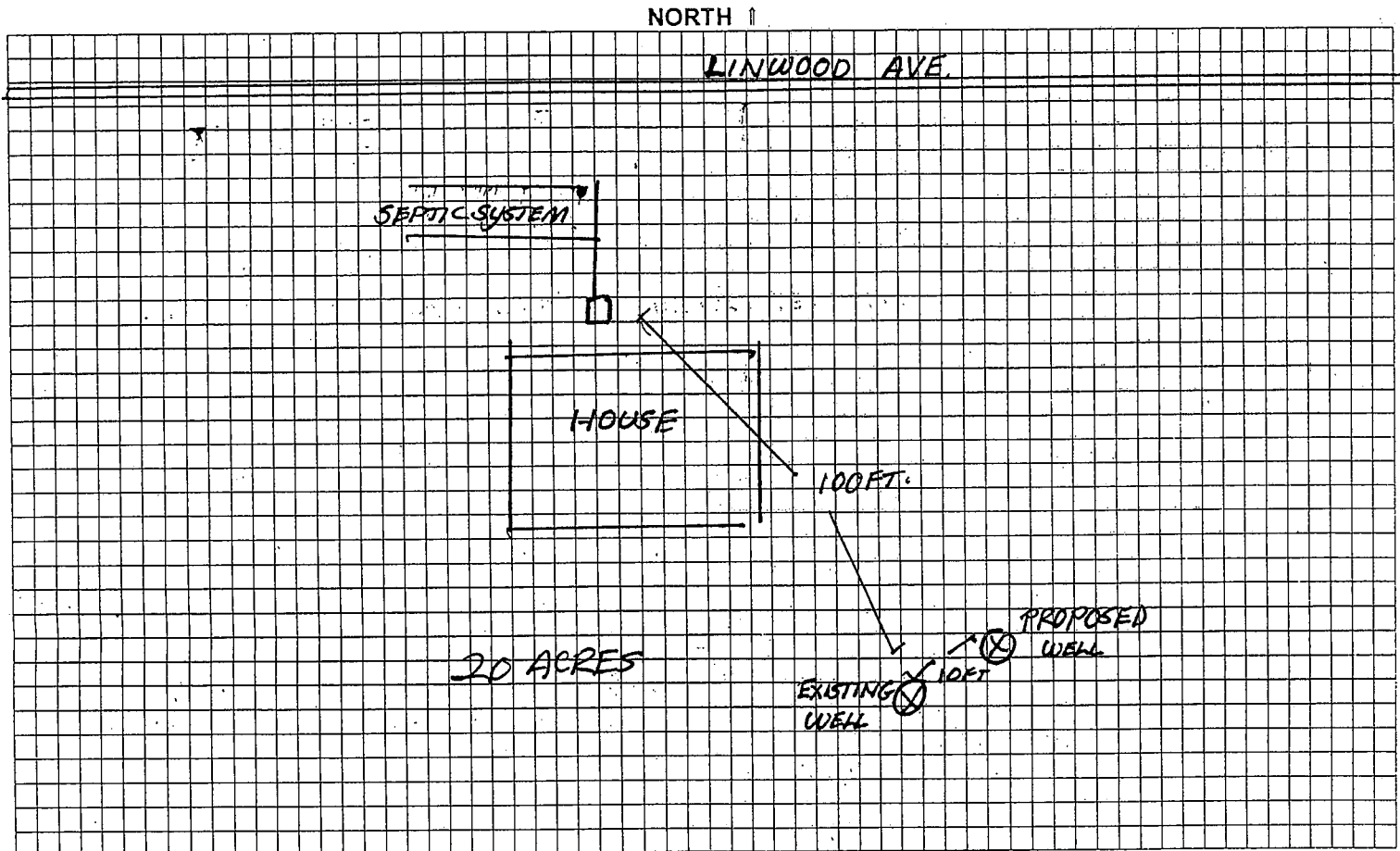
ATTACHMENT B

WELL LOGS

PLOT PLAN
(Indicate Distances in Feet)

055/10E-29 2/2

1. Name of street and distance from nearest cross roads to well site.
2. Outline of the property, easements.
3. Outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways, and walks.
4. Location of house sewer outlet, public sewer, sewage disposal system, or proposed sewage disposal system, proposed expansion of sewage disposal system, industrial waste pond, or any other possible source of contamination.
5. Location of other wells within radius of 300 feet on the property or adjoining property.
6. Location of sewage disposal system on adjoining property or within a radius of 100 ft. (private well) 150 ft. (public well).



Written description of well location (if not visible from road): _____

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA, THE ORDINANCES OF THE COUNTY OF STANISLAUS AND THE RULES AND REGULATIONS OF THE STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES (DER). DER WILL BE CONTACTED FOR INSPECTION OF ANNULAR SEAL INSTALLATION, AND AFTER WELL WORK HAS BEEN COMPLETED.

1. All existing wells within a 300 foot radius of the proposed new well(s) on the property or adjoining property have been located and so indicated.
2. Proposed well(s) will be located at least 50-100 feet from any sewage disposal system on property or adjoining property. Public well requires a distance of 100-150 feet from disposal system (100 ft. septic tank and leach lines, 150 ft. pits).
3. Submit well logs on all public wells drilled, as notice of well work completion.

SIGNED: Blake Hennings
(OWNER OR AUTHORIZED REPRESENTATIVE)

DATE: 8/7/09

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. 2

Date Work Began 4/7/2004 Ended 4/9/2004

Local Permit Agency STANISLAUS CO DER

Permit No. 04-79

Permit Date 4/7/2004

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. **0925040**

DWR USE ONLY -- DO NOT FILL IN

058/10E-20

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE (SPECIFY)

DEPTH FROM SURFACE DRILLING METHOD ROTARY FLUID MUD

Describe material, grain, size, color, etc.

Ft.	to	Ft.	DESCRIPTION
0	35		SAND
35	40		CLAY
40	50		SAND
50	69		CLAY
69	71		SAND
71	83		CLAY
83	86		SAND
86	119		CLAY
119	126		FINE SAND
126	130		CLAY
130	134		FINE SAND
134	158		CLAY
158	214		BLUE CLAY
214	229		CLAY
229	233		SAND
233	245		CLAY
245	250		SAND
250	260		CLAY

TOTAL DEPTH OF BORING 260 (Feet)

TOTAL DEPTH OF COMPLETED WELL 255 (Feet)

WELL OWNER

CITY STATE ZIP

WELL LOCATION

Address 4207 W LINWOOD AVE
City TURLOCK CA 95380
County Stanislaus
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____

DEG. MIN. SEC. LOCATION SKETCH NORTH SOUTH

ACTIVITY (✓)
☒ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
— Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) ☒ DAIRY

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 36 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 36 (Ft.) & DATE MEASURED 4/9/2004

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

May not be representative of a well's long-term yield.

DEPTH FROM SURFACE			BORE - HOLE DIA. (Inches)	CASING (S)							DEPTH FROM SURFACE			ANNULAR MATERIAL				
				TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS				SLOT SIZE IF ANY (Inches)	TYPE			
Ft.	to	Ft.	BLANK	SCREEN	CON- DUCTOR	FILL PIPE										Ft.	to	Ft.
0		225	16	✓				PLASTIC	8	SDR26		0		53		✓		
225		255	16		✓			PLASTIC	8	SDR26	.048	53		255				6X16 GRAVEL

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analysis
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy Rd.

ADDRESS

Signed

WELL DRILLER/AUTHORIZED REPRESENTATIVE

Turlock CITY

CA STATE

95380 ZIP

07/06/04 DATE SIGNED

434218 C-57 LICENSE NUMBER

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

Notice of Intent No. _____
Local Permit No. or Date 88-162

No. 250458
State Well No. 55/10E-20
Other Well No. _____

(1) OWNER _____
Address _____
City _____

(2) LOCATION OF WELL (See instructions):
County Stanislaus Owner's Well Number _____
Well address if different from above _____
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____

(12) WELL LOG: Total depth 250 ft. Completed depth 245 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0 - 22 sand
22 - 30 clay
30 - 40 sand
40 - 90 clay
90 - 95 red sand
95 - 120 clay
120 - 130 fine sand
130 - 154 clay
154 - 165 blue sand
165 - 210 blue clay
210 - 232 gray clay
232 - 245 sand
245 - 250 clay

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☒ private
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐ (Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:
Rotary ☒ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐
(6) GRAVEL PACK:
Yes ☒ No ☐ Size Roofing
Diameter of bore 12 1/2
Packed from 60 to 245 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☒ Concrete ☐
(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	245	6	160	225	245	
			PSI			

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 60 ft.
Were strata sealed against pollution? Yes ☐ No ☐ Interval _____ ft.
Method of sealing Bentonite

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion _____ ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☐ No ☐ If yes, by whom? _____
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

Work started _____ 19 _____ Completed 5-24 1988

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed Calwater Drilling Co. Inc., Bkpr.
(Well Driller)
NAME Calwater Drilling Co. Inc.
(Person, firm, or corporation) (Typed or printed)
Address 300 S. Kilroy
City Turlock, Calif. ZIP 95380
License No. 321252 Date of this report 6-8-88

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 064886
5/10-20
State Well No.
Other Well No.

Notice of Intent No. _____
Local Permit No. or Date 87-122

(1) OWNER: [REDACTED]
Address: [REDACTED]
City: [REDACTED]

(2) LOCATION OF WELL (See instructions):
County Stanislaus Owner's Well Number _____
Well address if different from above _____
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____

(12) WELL LOG: Total depth 222 ft. Depth of completed well 220 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0 - 2 Top soil
2 - 10 Sand
10 - 12 Clay
12 - 17 Sand
17 - 25 Clay
25 - 40 Sand
40 - 45 Clay
45 - 60 Sand
60 - 90 Clay
90 - 95 Sand
95 - 98 Clay
98 - 102 Sand
102 - 130 Clay
130 - 140 Sand
140 - 190 Blue clay & fine sand streaks
190 - 210 Clay & sand streaks
210 - 220 Sand
220 - 222 Clay

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)
(4) PROPOSED USE:
Domestic ☒ priv
Irrigation ☐
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

WELL LOCATION SKETCH
(5) EQUIPMENT:
Rotary ☒ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐
(6) GRAVEL PACK:
Yes ☒ No ☐ Size 1/4" - 1/2"
Diameter of bore 11"
Packed from 150 to 220 ft.
(7) CASING INSTALLED:
Steel ☐ Plastic ☐ Concrete ☐
(8) PERFORATIONS:
Type of perforation or size of screen
From ft. To ft. Dia. in. Casing or Wall ft. To ft. Slot size
0 220 8 160 200 220 PSI

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 150 ft.
Were strata sealed against pollution? Yes ☐ No ☐ Interval _____ ft.
Method of sealing Bentonite

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion _____ ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☐ No ☐ If yes, by whom? _____
Was electric log made? Yes ☐ No ☐ If yes, attach copy to this report

Work started _____ 19 _____ Completed 5-7 1987
WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
SIGNED M. Howard, Owner
(Well Driller)
NAME Calwater Drilling Co., Inc.
(Person, firm, or corporation) (Typed or printed)
Address 300 S. Highway
City Lubbock, Tex. Zip 79402
License No. 321252 Date of this report 5-11-87

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. _____

Date Work Began 11/3/95, Ended 11/3/95

Local Permit Agency Stanislaus Co. Dept. of Env. Resources

Permit No. 95-193

Permit Date 11/2/95

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. **475261**

DWR USE ONLY - DO NOT FILL IN

SS/10C-120

STATE WELL NO./STATION NO.

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER _____

GEOLOGIC LOG

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE _____ (SPECIFY)

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION
Ft.	to Ft.	
0	3	Top soil
3	9	Sand
9	13	Clay
13	21	Sand
21	26	Clay
26	51	Sand w/clay streaks
51	67	Clay
67	77	Sand
77	100	Pink clay & shale w/sand streaks
100	104	Sand
104	147	Clay
147	205	Blue clay
205	208	Fine sand
208	215	Blue clay
XXXX	225	Clay & brown shale
225	234	Brown coarse sand
234	240	Clay
240	247	Coarse brown sand
247	250	Clay
250	259	Coarse brown sand
259	269	Clay
269	272	Sand
272	280	Clay

CONFINED

TOTAL DEPTH OF BORING 280 (Feet)

TOTAL DEPTH OF COMPLETED WELL 265 (Feet)

WELL OWNER

Name _____

Mailin _____

CITY _____ STATE _____ ZIP _____

WELL LOCATION

Address Same

City _____

County Stanislaus

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____ Longitude _____

DEG. MIN. SEC. NORTH

LOCATION SKETCH

WEST _____ EAST _____

ACTIVITY (✓) ☒ NEW WELL

MODIFICATION/REPAIR

_____ Deepen

_____ Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (✓)

_____ MONITORING

WATER SUPPLY

☒ Domestic

_____ Public

_____ Irrigation

_____ Industrial

_____ "TEST WELL"

_____ CATHODIC PROTECTION

_____ OTHER (Specify) _____

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD Mud rotary FLUID Water

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 34 (Ft.) & DATE MEASURED 11/6/95

ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE		BORE-HOLE DIA. (Inches)	CASING(S)						DEPTH FROM SURFACE		ANNULAR MATERIAL			
Ft.	to Ft.		TYPE (✓)	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	Ft.	to Ft.	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)	
0	245	11	XX	PVC	6	160		0	24		X			
245	265	"	XX	"	"	"	.062	24	265				6X12 sand	

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Calwater Drilling Co., Inc.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy

Turlock, CA. 95380

ADDRESS

CITY

STATE

ZIP

Signed

Chisadeen Chandler, Bkkpr.

11/7/95

434218

WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED

C-57 LICENSE NUMBER

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

ORIGINAL
File with DWR

Do Not Fill In

Nº 66727

State Well No. _____

Other Well No. 55/105-20

(1) OWNER: Name [REDACTED] Address [REDACTED]					(11) WELL LOG: UNCONFINED Total depth <u>90</u> ft. Depth of completed well <u>90</u> ft. Formation: Describe by color, character, size of material, and structure <table border="1"><tr><td>Top soil</td><td>0 - 4</td></tr><tr><td>Sand</td><td>4 - 10</td></tr><tr><td>Clay</td><td>10 - 85</td></tr><tr><td>Sand</td><td>85 - 90</td></tr><tr><td>Clay</td><td>90 - 91</td></tr></table>					Top soil	0 - 4	Sand	4 - 10	Clay	10 - 85	Sand	85 - 90	Clay	90 - 91				
Top soil	0 - 4																						
Sand	4 - 10																						
Clay	10 - 85																						
Sand	85 - 90																						
Clay	90 - 91																						
(2) LOCATION OF WELL: County <u>Stanislaus</u> Owner's number, if any _____ Township, Range, and Section <u>4406 Linwood</u> Distance from cities, roads, railroads, etc. <u>3 miles west of Zerkland</u>																							
(3) TYPE OF WORK (check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Destroying <input type="checkbox"/> If destruction, describe material and procedure in Item 11.																							
(4) PROPOSED USE (check): Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>			(5) EQUIPMENT: Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Other <input type="checkbox"/>																				
(6) CASING INSTALLED: STEEL: <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> DOUBLE <input type="checkbox"/> OTHER: _____ If gravel packed <table border="1"><thead><tr><th>From ft.</th><th>To ft.</th><th>Diam.</th><th>Gage or Wall</th><th>Diameter of Bore</th><th>From ft.</th><th>To ft.</th></tr></thead><tbody><tr><td>0</td><td>90</td><td>6 3/4</td><td>12</td><td>10</td><td>80</td><td>90</td></tr></tbody></table> Size of shoe or well ring: _____ Size of gravel: _____ Describe joint: _____					From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.	0	90	6 3/4	12	10	80	90	<div style="transform: rotate(-30deg); border: 2px solid black; padding: 10px; text-align: center;">CONFIDENTIAL Water Code Sec. 13752</div>				
From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.																	
0	90	6 3/4	12	10	80	90																	
(7) PERFORATIONS OR SCREEN: Type of perforation or name of screen <table border="1"><thead><tr><th>From ft.</th><th>To ft.</th><th>Perf. per row</th><th>Rows per ft.</th><th>Size in. x in.</th></tr></thead><tbody><tr><td>80</td><td>90</td><td>10</td><td>6</td><td>1/8 x 2"</td></tr></tbody></table>					From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.	80	90	10	6	1/8 x 2"									
From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.																			
80	90	10	6	1/8 x 2"																			
(8) CONSTRUCTION: Was a surface sanitary seal provided? Yes <input type="checkbox"/> No <input type="checkbox"/> To what depth _____ ft. Were any strata sealed against pollution? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, note depth of strata _____ From _____ ft. to _____ ft. From _____ ft. to _____ ft. Method of sealing: _____																							
(9) WATER LEVELS: Depth at which water was first found, if known <u>4</u> ft. Standing level before perforating, if known _____ ft. Standing level after perforating and developing _____ ft.					WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. NAME <u>Alan P. P. & Well Drilling</u> (Person, firm or corporation) (Typed or printed) Address <u>1015 N 99 Hwy</u> <u>Zerkland Calif 95380</u> [SIGNED] <u>Emily Chan</u> (Well Driller) License No. <u>110637</u> Dated <u>10-10</u> , 19 <u>70</u>																		
(10) WELL TESTS: Was pump test made? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, by whom? _____ Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs. Temperature of water _____ Was a chemical analysis made? Yes <input type="checkbox"/> No <input type="checkbox"/> Was electric log made of well? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, attach copy _____																							

SKETCH LOCATION OF WELL ON REVERSE SIDE

WELL LOCATION SKETCH

Handwritten note:
126
327

NORTH BOUNDARY OF SECTION

NW ¼	NE ¼	½ MILE
SW ¼	SE ¼	
½ MILE <i>Handwritten: 1/2 mile</i> ½ MILE		½ MILE

Township _____ N/S
 Range _____ E/W
 Section No. _____

A. Location of well in sectionized areas.
 Sketch roads, railroads, streams, or other features as necessary.

NORTH 	
WEST	EAST
SOUTH 	

B. Location of well in areas not sectionized.
 Sketch roads, railroads, streams, or other features as necessary.
 Indicate distances.

RECEIVED
 OCT 1 1977
 SAN JOAQUIN DISTRICT

5/10-29R1

55-10-29R1

DRAINAGE WELL NO. 141

298

CONFIDENTIAL
Water Code Sec. 13752

MAP

PROFILE

LOCATION Sec. 29-5-10. In S.E. Cor.

DRILLED BY: T.I.D. 78' deep 255' deep

DATE: April 1939 deepened March 1939

REMARKS: Test 1960 g.p.m. 27' drawdown
1680 g.p.m. 24' drawdown
1420 g.p.m. 21' drawdown
Static water 6'

LOG

Casing	Depth	Well	Type of Soil
79 1/2' of 18" Perf.	6		Soil
	12		Hard pan
	20		Muddy sand
	35		Soft clay
			Clay
	94		Sand
	104		Sand + clay
138' of 18" Perf.	130		Clay
	160		Sand
	170		Blue clay
	215		Clay
	225		Sand
	227		Clay
	245		Sand
	255		

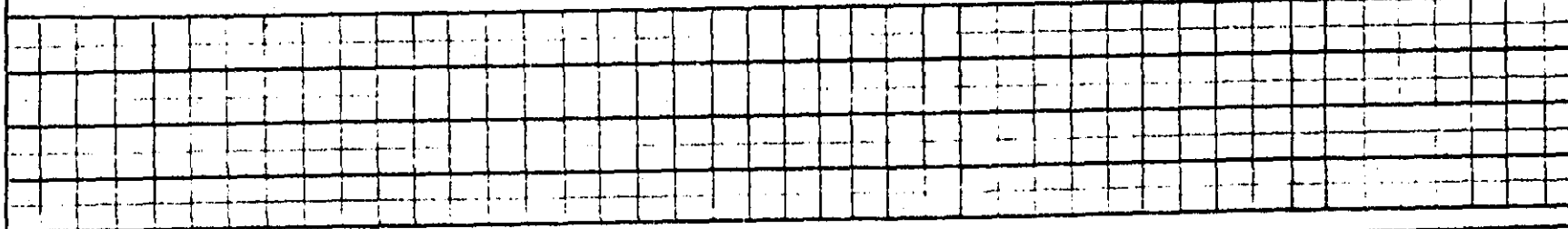
5/10-29A1

5-10E-29A1
DRAINAGE WELL NO. 5.

227

LSD Elev 86CONFIDENTIAL
Water Code Sec. 13752

MAP



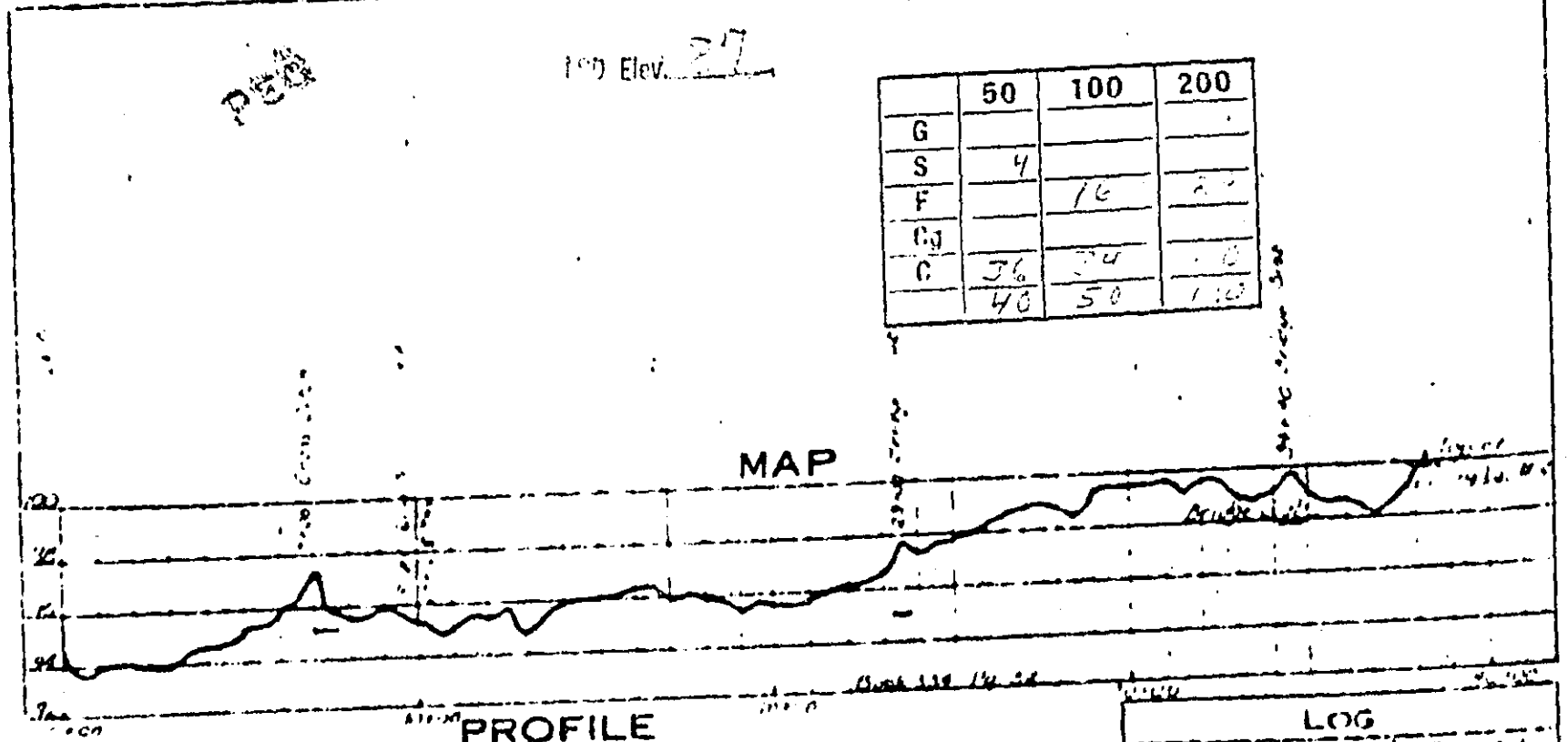
PROFILE

LOCATION Beginning at the NE Cor. of Sec. 29-5-10
thence W 810.0 ft., thence S 20.0 ft.

DRILLED BY: Osterberg Bros. 70. ft. of 16" hole.DATE: Aug. 25, 1922.REMARKS: 500 g.p.m. 19 ft.No pipe line.

LOG			
Casing	Depth	Well	Type of Soil
40' of 16"	10		Top Soil.
	20		Clay
	30		Sand
	40		
	50		Clay
	60		
	70		
	80		Sand
	90		
	100		
	110		
	120		
	130		
	140		
	150		
	160		
	170		
	180		
	190		
	200		
	210		
	220		
	230		
	240		
	250		
	260		
	270		
	280		
	290		
	300		

5/10-20A1 125
DRAINAGE WELL NO. 125



WHITE RANCH
LOCATION Sec. 20-5-10 NE 1/4 of NE 1/4

DRILLED BY: T.I.D
DATE: Mar 1935

CONFIDENTIAL
Water Code Sec. 13752

REMARKS: Tested with air pump
1050 GPM. 22' 6" D.D.
950 GPM. 20' 0" D.D.
850 GPM. 17' 6" D.D.
Static water 4 ft

LOG			
Feet	Feet	Feet	Feet
10 ft	24 in	Perf.	Soil
			Clay 4
			Sand 4
10 ft	10 ft	Lap	Clay 22
			Sand & Clay 16
			Clay 34
			5
10 ft	16 in	Perf.	Set (Sands) 20
			Clay 10
			Brown Mud 12
			Blue Clay 6
			Blue Mud 16
			Blue Clay 22
			9
			Gray Clay
			Sand Clay
			Sand

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do Not Fill In

No 66728

State Well No. _____
Other Well No. 53/10E-20

(1) OWNER:

Name _____
Address _____

(11) WELL LOG: **UNCONFINED**

Total depth 60 ft. Depth of completed well 60 ft.

Formation: Describe by color, character, size of material, and structure

ft. to _____ ft.

(2) LOCATION OF WELL:

County Stanislaus Owner's number, if any _____
Township, Range, and Section 4400 Linnwood, Jurleak
Distance from cities, roads, railroads, etc. 3 mile West Jurleak

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: _____ OTHER: _____
SINGLE ☒ DOUBLE ☐

If gravel packed

From ft.	To ft.	Diam. in.	Gage or Wall in.	Diameter of Bore in.	From ft.	To ft.
0	60	6 3/8	12	10	50	60

Size of shoe or well ring:

Size of gravel: 1/4

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
50	60	10	6	1/8 x 2"

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth _____ ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata _____

From _____ ft. to _____ ft.

From _____ ft. to _____ ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 4 ft.

Standing level before perforating, if known _____ ft.

Standing level after perforating and developing _____ ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

Was electric log made of well? Yes ☐ No ☐ If yes, attach copy

Work started 19 _____ Completed 9/17 19 70

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME (Clean) Pety & Sons Drilling
(Person, firm, or corporation) (Typed or printed)

Address 1015 N 99 Hwy
Jurleak, Calif

[SIGNED] (Well Driller)

License No. 110037 Dated 10-10, 1970

SKETCH LOCATION OF WELL ON REVERSE SIDE

WELL LOCATION SKETCH

NORTH BOUNDARY OF SECTION

NW ¼		NE ¼		½ MILE
SW ¼		SE ¼		½ MILE
½ MILE		½ MILE		

126
327

Township _____ N/S

Range _____ E/W

Section No. _____

- A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.

NORTH	
WEST	EAST
SOUTH	

- B. Location of well in areas not sectionized.
Sketch roads, railroads, streams, or other features as necessary.
Indicate distances.

RECEIVED
SAN JOAQUIN DISTRICT